## **DRAWINGS**

## **FOR**

## **UNITED STATES LETTERS PATENT**

TITLE:

EARLY SUPPRESSION FAST RESPONSE FIRE PROTECTION

**SPRINKLER** 

**APPLICANT:** 

MICHAEL A. FISCHER

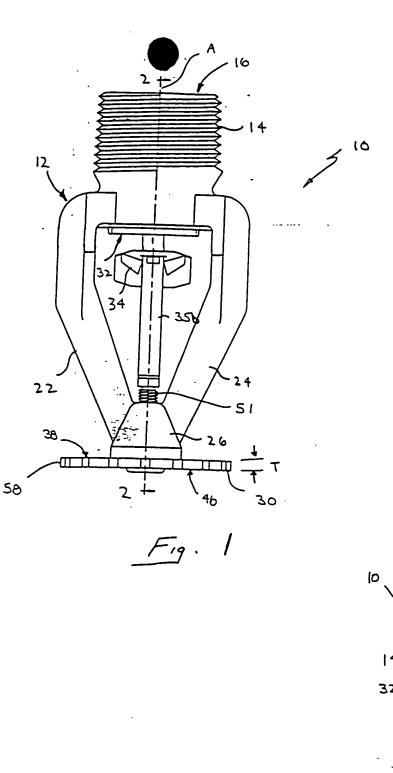
**FIGURES:** 

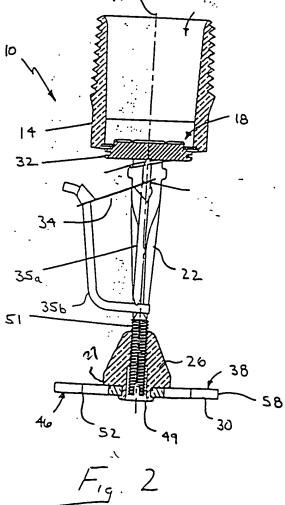
1 - 10

SHEETS:

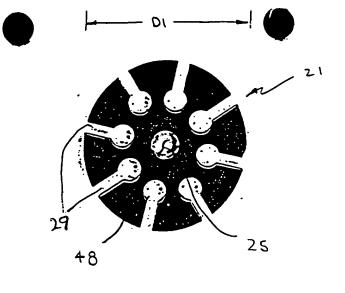
1 - 7

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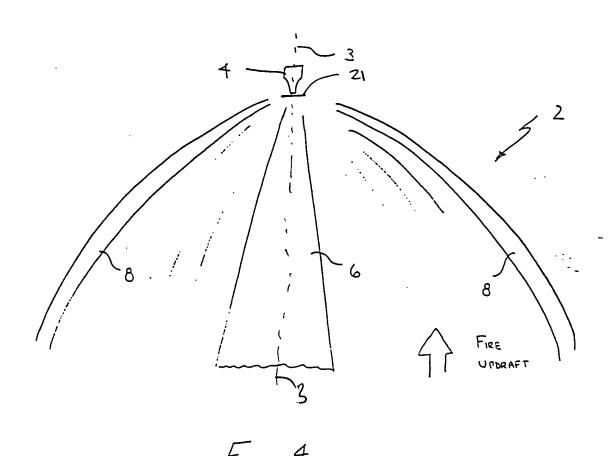


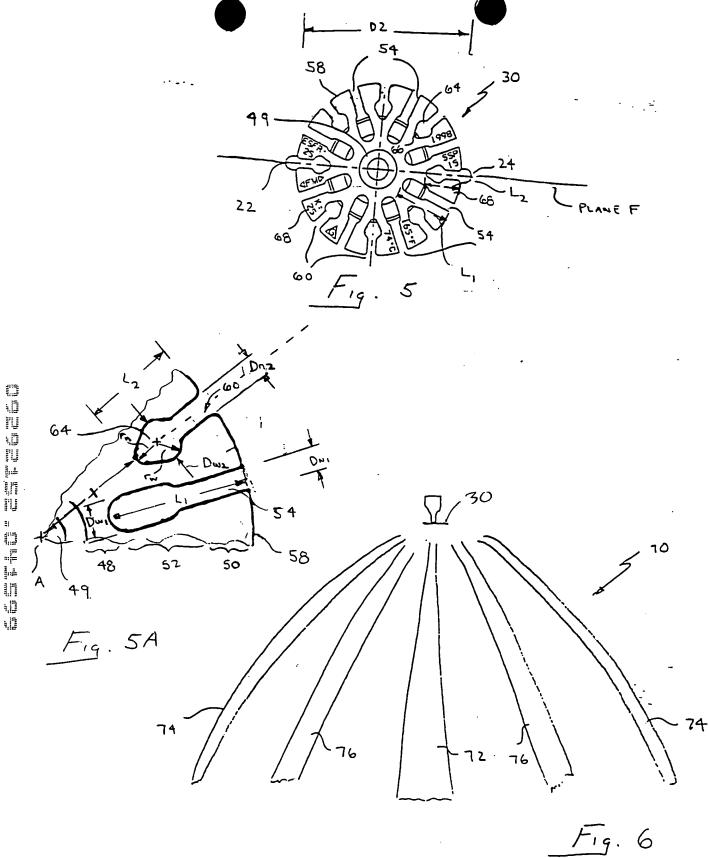






F19.3





-#0127 9/26/97 07:48 SCANS= 296, JINO. = 0D0R9.PR Grin-K25-1P1s-15ft p-c -(12-2)100gpm-16psi-nf

L

		Ob)		24						
	0.099	. 0.177	0.219	0.123		0.167				
	0.147	0.201	0	0.222		0.283				
sec		0.238		0	.363		] ← z			
: Stop - 270	0.196	0.275	0.449	0.359		0.405	92,			
fart - 35 sec.	0.247	0.316	·0 %	0.824		0.434				
n: S		0.684 きし		1.45			25			
ala reductior	0.221	0.374	34	1.07		0.511				
Time period of data reduction: Start - 35 sec.; Stop - 270 sec.	0.257	0.337	0.534	0.414		0.472	ADD = 0.464 ADD = 0.217 ADD = 0.195 ADD = 0.297 ADD = 0.258 ADD = 0.505 ADD = 0.617			
Ë		0.266		0.39	6					
	. 0.165	0.25	77.3	0.319	0.249		Center Core West Flank East Flank N-W Qaud. N-E Qaud. S-E Qaud.			
	0.131	0.18		0.149	,	0.13/	· ·			

F19. 7- Pur Aut

9/26/97 08:00 SCANS= 268, JINo. = 0D0R9.PR Grin-K25-1P1s-15ft p-c -(12-2)100gpm-16psi-2000kw

-- # 0128

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69

ر د 7 92 0.107 0.098 0.13 0.138 0.168 0.118 0.1560.167 0.272 Time period of data reduction: Start - 95 sec.; Stop - 202 sec. 0.172 0.27 0.151 0.181 0.254 0.265 0.219 0.177 0.169 0.656 0.321 0.351 🕏 9 1.16 0.134 0.158 0.524 0.292 0.221 0.153 0.1530.215 0.18 0.25 11 West Flank ADD Center Core ADD 0.162 0.258 0.104 0.189 0.15 0.265 0.173 0.068 0.1330.103 0.14 ફ

Fig. 8-Point Aut

Z

45

0.158 0.156 0.169

Flank ADD

East M-N N-E

ADD

Qaud.

Qand ... ADD

0.320 0.373

ADD ADD

Qand, Qaud.

S-E

Grin-K25-1P1s-15ft p-c 100gpm-16psi-X11 9/25/97 12:08 SCANS= 256, J I No. = 0D0R9.PR 69 F

			<u> </u>	240			7 92			٠.
		0.092		(* -	0.128		0.132		113	
		0.13	-	0.238		0.264	0.235		0.225	
9	j	0.297						0.37		$\neg\leftarrow$ z
. Stop - 230		0.321		0.406		<i>!</i> :	0.469		. 0.37	
larl - 25 sec.		0.361		0.483		46 0.67	1.24		a 623	
n: S	<u> </u>		1.44	; <b>*</b> \	~			1.53	22	
Time period of data reduction: Start - 25 sec.; Stop - 230 sec.		0.502		0.493	i i		0.881		0.547	
		0.325		0.415	1	0.655	0.456		0.479	D = 0.592 D = 0.230 D = 0.189 D = 0.433 D = 0.392 D = 0.676
Tin	-	-	0.337	,			0.	426	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
		0.157		0.266	0.309		0.378		0.259	Center Core ADD = West Flank ADD = East Flank ADD = N-W Qaud. ADD = N-E Qaud. ADD = S-E Qaud. ADD = S-W Qaud. ADD =
		0.093		0.141	0::		0.206	·	0.118	0 0 0

F.9.9

-- # 0116 ட 69 9/25/97 13:05 SCANS= 386, JINo. = 0D0R9.PR Grin-K25-1P1s-15ft p-c -100gpm-16psi-2000kw-X11

	٦		06-	***************************************	, do		(	4						
		•	0.090		0.201			0.104		0.096			٠.	,e
			0.107					0.181			0.225	42		
S	}  _			0	0.209				0.24	8		14		Z
. Slop - 350		0.172			0 209	- 1	0.256	0.304		0.253		26		
lari - 65 sec.		0.279			0.198		~96 0.2	D.884		0 571		92	/	
n: S				0.7	02\$	- 4	0.978			3		تقريه		
Time period of data reduction: Start - 65 sec.; Stop - 350 sec.		0.236			0.17			0.407	0.407			• *		
		0.158			0.199	0.23		0.256		0.263		0D = 0.338 0D = 0.158	3D = 0.214 3D = 0.503 3D = 0.327	
Ë			<del></del>	0.198			0.249					8 X X	ADD.	Abo
		960.0			0.18			0.224	-	0.26		Center Core ADD West Flank ADD East Flank ADD		N-E Qaud. S-E Qaud. S-W Qaud.
		90.0		<b>-</b>	0.101	О.		0.158		0.091		30		

F19.10